#!/bin/bash

declare -A employees

add\_employee() {

echo "Enter Employee ID:"

read emp\_id

if [[ -z "${employees[$emp\_id]}" ]]; then

echo "Enter Name:"

read name

echo "Enter Position:"

read position

echo "Enter Salary:"

read salary

employees[$emp\_id]="$name|$position|$salary"

echo "Employee added successfully."

else

echo "Employee ID already exists."

fi

}

delete\_employee() {

echo "Enter Employee ID to delete:"

read emp\_id

if [[ -n "${employees[$emp\_id]}" ]]; then

unset employees[$emp\_id]

echo "Employee deleted successfully."

else

echo "Employee ID not found."

fi

}

update\_employee() {

echo "Enter Employee ID to update:"

read emp\_id

if [[ -n "${employees[$emp\_id]}" ]]; then

echo "Enter new Name:"

read name

echo "Enter new Position:"

read position

echo "Enter new Salary:"

read salary

employees[$emp\_id]="$name|$position|$salary"

echo "Employee updated successfully."

else

echo "Employee ID not found."

fi

}

display\_all\_employees() {

if [[ ${#employees[@]} -eq 0 ]]; then

echo "No employees to display."

else

printf "%-15s %-20s %-20s %-10s\n" "Employee ID" "Name" "Position" "Salary"

printf "%-15s %-20s %-20s %-10s\n" "-----------" "----" "--------" "------"

for emp\_id in "${!employees[@]}"; do

IFS='|' read -r name position salary <<< "${employees[$emp\_id]}"

printf "%-15s %-20s %-20s %-10s\n" "$emp\_id" "$name" "$position" "$salary"

done

fi

}

search\_employee() {

echo "Enter Employee ID to search:"

read emp\_id

if [[ -n "${employees[$emp\_id]}" ]]; then

IFS='|' read -r name position salary <<< "${employees[$emp\_id]}"

printf "%-15s %-20s %-20s %-10s\n" "Employee ID" "Name" "Position" "Salary"

printf "%-15s %-20s %-20s %-10s\n" "-----------" "----" "--------" "------"

printf "%-15s %-20s %-20s %-10s\n" "$emp\_id" "$name" "$position" "$salary"

else

echo "Employee ID not found."

fi

}

while true; do

echo "1. Add Employee"

echo "2. Delete Employee"

echo "3. Update Employee"

echo "4. Display All Employees"

echo "5. Search Employee"

echo "6. Exit"

echo "Enter your choice:"

read choice

case $choice in

1) add\_employee ;;

2) delete\_employee ;;

3) update\_employee ;;

4) display\_all\_employees ;;

5) search\_employee ;;

6) break ;;

\*) echo "Invalid choice, please try again." ;

esac

done